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(21) International Application Number: PCT/US00/05991 (22) International Filing Date: 8 March 2000 (08.03.00) (30) Priority Data: 60/123,257 8 March 1999 (08.03.99) US (71)(72) Applicants and Inventors: <u>WARD</u> , Vincent, C. [US/US]; 6504 Mayfair, Houston, TX 77087 (US). <u>WARD</u> , Mark, V. [ZA/US]; 6504 Mayfair, Houston, TX 77087 (US). <u>WARD</u> , Bryce, D. [US/US]; 6504 Mayfair, Houston, TX 77087 (US). (74) Agent: CURINGTON, Tim, W.; 1700 W. Loop South, Suite 1700, Houston, TX 77027 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>Without international search report and to be republished upon receipt of that report.</i>

(54) Title: WATER JET ABRASIVE RECYCLING APPARATUS AND METHOD**(57) Abstract**

A preferred embodiment of the present invention relates to an abrasive recovery apparatus for use in conjunction with the slurry generated by water jet cutting or conditioning operations. The generated slurry is comprised of both non-recyclable fines and recyclable particles. The abrasive recovery apparatus comprises a slurry intake system having one or more pumps which collect and distribute slurry. The abrasive recovery apparatus further comprises a vibrating separator having a filter sized and shaped such that the non-recyclable fines in the slurry are separated from the recyclable particles in the slurry. The abrasive recovery apparatus still further comprises a fluidized bed dryer having heating elements to dry the recyclable particles.

